
**** ADVANCE NOTIFICATION of NavData Output Change ****

ARINC 424-18 Helicopter Data Records Option

June 20, 2007

Beginning in NavData Cycle 0710, Jeppesen will begin offering Helicopter data in accordance with ARINC specification 424, Supplement 18. This document serves as the contractually required advanced notification for implementation of the new data scheduled for implementation in AIRAC Cycle 0710, effective date 27 September 2007. This option is in addition to the Helicopter changes outlined in the March 12, 2007 NavData Notice. The March 12 Helicopter NavData Notice details has been attached on pages 3 and 4 of this document for reference purposes.

Background

As a continuation of our ongoing upgrades to Helicopter data, Jeppesen will begin offering Helicopter data as defined by ARINC 424-18. The new option is referred to as the Helicopter Standard format and will only be available on request through your Jeppesen Business Representative or Jeppesen NavData Technical Support.

With the exception of those files currently taking helicopter data in the ARINC 424-13 format, current subscriptions will not be affected by this change. Since the -13 version will no longer be offered starting in 0710, those files currently taking Helicopter records in that format will lose records unless they upgrade to the new Helicopter Standard format. That change is defined below.

Summary

The Helicopter Standard format introduces additional helicopter record types HA, HV, HD, HE, HF, HC, and HS as follows:

- Heliport (HA) records will extract according to 4.2.1 records layout. These records will be included wherever they are based off either a Combined Airport/Heliport or Heliport. The same options offered in the Airport (PA) records will be available to choose from in the Heliport (HA) record, such as, Private, Civil and Military, and IFR Only Heliports.
- Helicopter Terminal Waypoint (HC) records will extract according to 4.2.2 records layout. These records will be available wherever they are based off an Heliport or a Combined Airport/Heliport. The same selection options offered in the fixed wing waypoint (PC) record, such as Named, Unnamed, RNAV, etc. will be available on the Helicopter Terminal Waypoint (HC) records.

- Heliport SID/STAR/APPROACH (HD/HE/HF) records will extract according to 4.2.3 records layout. Hx record types will only extract for procedures that serve a Helipad. Helicopter Procedures that serve a runway(s) will still extract as PD, PE, and PF records and carry an H or I in qualifier 2 (column 120). All Helicopter procedures will extract according to the rules defined in ARINC 424, attachment 5, section 6.12. The same options offered in Airport SID/STAR/APPROACH (PD/PE/PF) records will be available in the Heliport SID/STAR/APPROACH (HD/HE/HF) records, such as Localizer Approach Types, VOR Approach Types, etc.
- Heliport Minimum Sector Altitude (HS) records will extract according to 4.2.4 records layout. The records will be included wherever they are based off waypoints either at a Combined Airport/Heliport or Heliport, or wherever they are based off a Terminal Navaid based at either a Combined Airport/Heliport or Heliport.
- Heliport Comm (HV) records will extract according to 4.2.5 records layout. These will be included whenever a Comm is associated to either a Combined Airport/Heliport or Heliport record. The same options available to PV records will be available for HV records, such as Flight Service Stations, Air Traffic Tower, etc.

The Helicopter Standard format will not affect fixed wing record types. Fixed wing record types will continue to extract according to the record layouts defined in ARINC 424-18, section 4.0. However, some files are currently receiving helicopter terminal procedures in PF record types using the ARINC 424-13 route types. For example, the COPTER VOR/DME or GPS 066° procedure at Astoria, Oregon (KAST) is extracting as a PF record type with an identifier of 'H066' and with an 'H' route type. Beginning in cycle 0710, this procedure will only be available in the Helicopter Standard format and as defined by ARINC 424-18. In the Standard format, this procedure will continue to extract as a PF record type since it serves a runway, with an identifier of 'D066', route type 'D' and a qualifier of I.

Many customers will be receiving the format defined in the March 12th NavData Notice beginning in NavData cycle 0708. That format will officially be referred to as the 'By Request' format. If you are interested in upgrading to the Helicopter Standard format please contact Jeppesen to initiate a parameter change for NavData cycle 0710. Test files for the Helicopter Standard format can be made available upon request.

If you have questions about this notice, please contact Jeppesen NavData Technical Support at phone (USA) 303-328-4445, e-mail navdatatechsupport@jeppesen.com, or fax (USA) 303-328-4122.



**** ADVANCE NOTIFICATION of NavData Output Change ****

Implementation of Helicopter Indicator Codes for PA and PF Record Types

March 12, 2007

Jeppesen will begin providing unique values for helicopter data contained within PA (Airport) and PF (Approach Procedure) records. This document serves as the contractually required advanced notification for implementation of the new extract requirements scheduled for implementation in AIRAC Cycle 0708, effective date 02 August 2007.

Background

Today, Jeppesen delivers helicopter data in fixed wing record types with no distinguishable characters that separate them from the actual fixed wing operations data. The changes outlined in this Notice allow Jeppesen to deliver characters that are unique to the helicopter operations data within the fixed wing airport (PA) and approach (PF) records.

To accomplish this, Jeppesen will use the PUB/MIL field (column 81) on the PA primary record, the Public/Military Jeppesen Supplemental field (column 119) on the PA continuation record, and RTE QUAL 2 field (column 120) on the PF primary record. Additional details for these changes are explained in the Summary section in this document. Effective NavData Cycle 0708, all helicopter data that is provided as PA or PF records will include the helicopter indicator codes in those records as described in this Notice.

In addition to these updates, Jeppesen is continuing to advance our helicopter data capture and output capabilities. We plan to release another Notice explaining those changes later in 2007. These planned changes will allow us to offer additional versions of Helicopter data as defined in later ARINC versions.

Summary

Jeppesen will implement this change within the PA records using two separate methods. The impact to your software will depend on whether or not you choose to receive the Jeppesen supplemental fields in the PA continuation records.

If you **do** receive the Jeppesen supplemental fields in the PA continuation record, you will receive an "H" in column 119 of the PA continuation record indicating that the PA record is a heliport.

If you **do not** receive the Jeppesen supplemental fields in the PA continuation record, you will receive an "H" in column 81 (ARINC Pub/Mil field) on the PA primary record indicating that the PA record is a heliport.

Example of change on Jeppesen supplemental fields in PA continuation record:

```
*SUSAP KAPAK2AAPA 2JDENVER COUSA
TKDENK2NNNNYNNNNYNNNNYNNNNY N0000YNYN 1HT00Y328110401
```

Example of change on PA primary record:

```
*SUSAP KAPAK2AAPA 110000100Y N39341246W104505746E010805883250
1800018000H MNAW
```

You now have the option to have GPS helicopter and/or GPS helicopter Circle-to-Land procedures included into your file. And if you choose to receive these Helicopter procedures, they will contain an indicator of "H" (GPS helicopter) or "I" (GPS helicopter circle-to-land) in the ARINC 424 RTE QUAL2 field (column 120), regardless of the ARINC version your PF records are currently using.

Example of change on PF primary records:

GPS Helicopter straight-in

```
*SUSAP KAPAK2FP28 P 020NIDLYK2PC0E F TF 0050 07500 RW28
K2PGP H 2785300704
```

GPS Helicopter circle-to-land

```
*SUSAP KAPAK2FP283 P 020NIDLYK2PC0E F TF 0050 07500 RW28
K2PGP I 2785300704
```

*These records are examples only and do not follow the actual 132 character ARINC record layout.

If you are receiving helicopter data in PA and PF records, these changes will be implemented in your helicopter data beginning with cycle 0708. If your system cannot handle these changes and you do not wish to receive these new indicators, you must request a change to your file parameters prior to cycle 0708.

If you have questions about this notice, please contact Jeppesen NavData Technical Support at phone (USA) 303-328-4445, e-mail navdatatechsupport@jeppesen.com, or fax (USA) 303-328-4122.